

**Table 1. Summary of Modeling Results - 1-Hour SO<sub>2</sub> NAAQS (196 ug/m<sup>3</sup>)<sup>a</sup>**

| Model   | Emissions             | Meteorological Data   | Percent Over NAAQS of Violation | # of Violations @ One Receptor | Spatial Extent of Violation |
|---------|-----------------------|-----------------------|---------------------------------|--------------------------------|-----------------------------|
| CALPUFF | Allowable Emissions   | 2002<br>12km MM5 Grid | 1,662 %                         | 35                             | Figure 1,<br>Document 1     |
| CALPUFF | Actual Emissions      | 2002<br>12km MM5 Grid | 1,019 %                         | 23                             | Figure 2,<br>Document 1     |
| CALPUFF | Allowable Emissions   | 2003<br>4 km MM5 Grid | 1,159 %                         | 59                             | Figure 3,<br>Document 1     |
| AERMOD  | Allowable Emissions   | July 1993 – June 1994 | 615 %                           | 42                             | Figure 3,<br>Document 2     |
| AERMOD  | Est. Actual Emissions | July 1993 – June 1994 | 138 %                           | 5                              | Figure 4,<br>Document 2     |

a. No background SO<sub>2</sub> concentrations included, reflects only the impact of Portland Generating Station.

Document 1- CALPUFF Predictions of the 1-Hour Sulfur Dioxide Impacts due to Emissions from the Portland Generating Station, (dated August 25, 2010).

Document 2 - AERMOD Modeling Analysis of the 1-Hour Sulfur Dioxide Impacts Due to Emissions from the Portland Generating Station (dated July 30, 2010).